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REPORT NO. 3

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
CURRENT SERIAL RECORDS

NOV 28 1974

Cotton Fiber and Processing Test Results

CROP OF

1974



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 September 13, 1974

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1974

Discussion of Test Results

The Cotton Division of the Agricultural Marketing Service report the average values on the limited number of short staple samples tested to date to be longer and stronger than last season. The uniformity is lower. Shirley Analyzer nonlint content is lower than a year ago. Picker and card waste is higher. Yarns spun from these samples show both a higher skein strength and yarn appearance index than a year ago. Yarn imperfections are fewer.

Medium staple samples tested from the Southwest show average fiber length and fineness to be about the same as a year ago. Cottons are stronger than last season. Picker and card waste is higher. Yarns spun from these samples show yarn strength to be stronger. Yarn imperfections were fewer than a year ago.

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.^{1/} These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

1/ Summary of Cotton Fiber and Processing Test Results, Crop of 1973,
USDA, AMS, Cotton Division, May 1974.

Table 1.-Cotton:

Averages of fiber and processing tests from selected gin points in the United States through September 6, 1974

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Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results					
		Fibrograph		Mike fine- ness		P & C nonlint waste		Yarn quality		Spin. Potent.			
		2.5% span	50/2.5 unif.	Zero gage	1/8" gage	S A nonlint str.	Pearl str.	Skein appearance	Imparf- ections	Lbs. Index	22s Carded	No.	Yarn No.
No.	Inches	Rdg.	Mpsi	G/tex	Pct.	Pct.	Pct.	Pct.	Pct.	Lbs. Index	22s Carded	Yarn No.	
Short Staple:													
Southwest													
1973	1	0.94	47	4.1	72	20	4.9	4.8	92	80	32	46	
1974	3	0.98	45	4.3	88	23	2.9	6.4	99	117	11	46	
Medium Staple:													
Southwest													
1973	8	1.08	45	4.4	81	22	2.2	5.1	100	94	26	62	
1974	20	1.08	45	4.4	84	23	2.5	5.6	106	96	17	63	
Significant dif- ference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3	

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification				Fiber Test Results								Processing Test Results - Carded Yarns														
No	Sample Number	Digital Fibrograph		Mike		Fiber Strength		Elongat'n 1/8"		S.A. Non-lint		Color Raw Stock		P & C Waste		Strength		Elongation		Appearance Index		Imperfect's		Spin. Potential		
		Grade	Staple 2.5% span	In	Pct	Zero Gage	1/8" Gage	Mpsi	Gtex	Pct	Pct	Gra	Yel	No	No	Pct	Pct	Lbs	tx	8s or 22s or 74 tx	8s or 22s or 74 tx	8s or 22s or 74 tx	8s or 22s or 74 tx	No	No	No
SOUTHWEST																										
TAYLOR	42	30	.95	45	4.1	85	22	LANKART	57	3.1	3	4	85 PERCENT	6.2	278	92	7.2	5.8	120	110	21	21	15	44		
1 SIM LF SP																										
WACO	41	32	.99	46	4.4	88	24	LANKART	IX 571				95 PERCENT													
1 SIM	31	32	1.00	45	4.5	92	23	5.8	3.0	2	4	6.6	316	104	7.3	6.3	130	120	14	10	9	9	52	43		
2 MID								6.0	2.6	1	4	6.4	309	100	7.7	6.2	130	120	10	10	9	9				
SOUTH TEXAS																										

Table 3 -Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974

